

Serial Nr.: 10/032,884
Art Unit: 2851

UPA-01215

AMENDMENTS TO THE SPECIFICATION:

Page 1, amend paragraph [0003] as:

[0003] However, the existing scanner can autocrop only an entire frame or consecutive frames of a negative film, namely, it usually autocrops a frame including valid and invalid sections, and it fails to autocrop a pure valid section of the negative film separately. As it doesn't really help for autocropping an image desired, a user has to do it by manual manipulation.

Page 1, amend paragraph [0004] as:

[0004] As to ~~solve~~ solving this problem, a fixing clamp designed specifically for autocropping negative film may be used. ~~However, it is not applicable taken though, it is inapplicable~~ to all kinds or brands of negative film.

Page 2, amend paragraph [0007] as:

[0007] In order to realize the above-mentioned ~~abovesaid~~ object, the method of this invention comprises several steps as described below.

Page 2, amend paragraph [0008] as:

[0008] Step (A) is to build a database of negative film for application of a scanner driver in which ~~driver, in which~~ brand names and frame measurements of various negative films are recorded. Step (B) is to preview the frame scope of a negative film for obtaining a plurality of vertex coordinates. Step (C) is to calculate the coordinates of the center of the frame according to the vertex coordinates obtained. Step (D) is to input the

Serial Nr.: 10/032,884
Art Unit: 2851

UPA-01215

brand name of the negative film through an input interface of the scanner driver. Step (E) is to search the database for a valid frame scope of the negative film according to the brand name thereof. Step (F) is to calculate the plurality of vertex coordinates in the valid frame scope according to the coordinates of the center and the valid frame scope of the negative film. And, step (G) is to display a cropped scope, ~~that~~ scope that is the valid frame scope of the negative film, according to the plurality of the vertex coordinates in the valid frame scope of the negative film.

Pages 3-4, amend paragraph [0011] as:

[0011] Fig. 1A shows a flowchart in performance of this invention for a negative film. In Fig. 1A, a step 10a is to build a database of negative film stored in a scanner's storage device for application of a scanner driver. The database of negative film shown in Fig. 2A contains a plurality of ~~records 20~~, in records 20 in which each record 20 is composed of a brand name and measurements of a valid scope of a negative film. A step 11a is to preview the negative film frame of a negative film for obtaining coordinates of a plurality of vertexes, and a step 12a is to calculate the coordinates of the center of the negative film frame according to the coordinates of the plurality of vertexes. A step 13a is to input the brand name of the negative film through an input interface of the scanner driver, and a step 14a is to search the database for measurements of a valid film frame according to the brand name of the negative film. Moreover, a step 15a is to calculate and obtain the ~~for obtaining~~ coordinates of the plurality of vertexes of the valid film frame according to the coordinates of the center and measurements of the valid scope thereof. Finally, a step 16a is to display a cropped film frame, namely the valid frame scope of the

Serial Nr.: 10/032,884
Art Unit: 2851

UPA-01215

negative film, according to the obtained coordinates of the plurality of coordinates of the valid scope.

Page 4, amend paragraph [0012] as:

[0012] Fig. 1B shows a flowchart in performance of this invention for a consecutive negative film. In Fig. 1B, a step 10b is to build a database of consecutive negative film stored in a storage device of scanner for application of a scanner driver. The database of the consecutive negative film shown in Fig. 2B contains a plurality of ~~records 21, in~~ records 21 in which each record 21 is composed of a brand name, measurements, and the number of sprocket holes on a single side of a negative film frame of the consecutive negative film. A step 11b is to preview the film frames of the consecutive negative film, and a step 12b is to input the brand name of the consecutive negative film through an input interface of the scanner driver. A step 13b is to search the database of the consecutive negative film for obtaining the measurements of a negative film frame and the number of sprocket holes on a single side thereof. A step 14b is to split the consecutive negative film into a plurality of sections according to the number of sprocket holes on a single side of the negative film frame. Moreover, a step 15b is to obtain the coordinates of a plurality of vertexes in the sections and calculate the ~~calculating~~ coordinates of the center of every section, namely the coordinates of the center of every negative film frame, ~~basing~~ based on the coordinates of the vertexes. Finally, a step 16b is to calculate the coordinates of a plurality of vertexes of each negative film frame based on ~~the basing on~~ measurements of each negative film frame of a consecutive negative film of a certain brand and the coordinates of the center of each negative film frame. And, a step

Serial Nr.: 10/032,884
Art Unit: 2851

UPA-01215

17 is to display a plurality of cropped sections, which represents the valid scope of the consecutive negative film, according to the obtained coordinates of the plurality of vertexes of each negative film frame.

Pages 4-5, amend paragraph [0013] as:

[0013] Fig. 3A shows an embodiment of this invention for a negative film, ~~in film in~~ in which the method of this invention excludes an invalid scope 31 and ~~autocrops~~ autocrop a scope of valid frame 30. In a conventional method for scanning a negative film, the negative film must be previewed before scanning so as to fetch the coordinates of a plurality of vertexes 310, 311, 312, 313 on a scan platform and calculate the coordinates of the center 300 of the negative film frame according to the obtained coordinates of the vertexes.

Page 5, amend paragraph [0014] as:

[0014] The brand of the negative film shown in Fig. 3A is "~~Kodak~~", ~~whose~~ "Kodak" whose scope of valid frame 30 including 380 pixels in length and 250 pixels in width can be found in the database of negative film shown in Fig. 3B. The coordinates of a plurality of vertexes 301, 302, 303, 304 in the scope of valid frame 30 can be thus calculated and acquired. Then, ~~based~~ based on the coordinates of the vertexes 301, 302, 303, 304, the scanner is enabled to show a cropped scope, namely the scope of a valid frame 30. Calculation of the coordinates of the foregoing center is reckoned by an operation unit in the scanner according to the geometric coordinate concept.

Pages 5-6, amend paragraph [0016] as:

Serial No.: 10/032,884
Art Unit: 2851

UPA-01215

[0016] The brand of the negative film shown in Fig. 4A is "~~Kodak~~", in "Kodak" in which the scope of a plurality of valid frames 40 including 380 pixels in length, 250 pixels in width, and 8 sprocket holes on a single side can be found in the database of negative film shown in Fig. 4B, and the scope of the plurality of valid frames 40 is the scope of valid frames 40 of the consecutive negative frames 40. Moreover, a plurality of sections is split by dotted lines shown in Fig. 4A by every 8 sprocket holes as a unit on a single side of a valid frame so that the coordinates of a plurality of vertexes 410, 411, 412, 413 in sections are obtainable. The procedure of this method is supposed to calculate the coordinates of the center 400 of every section that section, ~~that~~ is the coordinates of the center 400 of each valid frame 40. Then, the procedure goes to calculate the coordinates of the center 400 in every section, namely the coordinates of the center 400 in every negative film frame 40, according to the coordinates of the plurality of vertexes 410, 411, 412, 413. The following step is to calculate the coordinates of a plurality of vertexes 401, 402, 403, 404 of each valid frame 40 according to the coordinates of the center 400 of each valid frame 40 and the measurements thereof so thereof, ~~such that~~ the scanner can show a plurality of film frames that are frames, ~~that is~~ the valid frames 40 of the consecutive negative film based on the coordinates of the vertexes 401, 402, 403, 404. The foregoing center is reckoned by an operation unit in the scanner according to the geometric coordinate concept.